

# UNIT 1: MEASURING THE MEASURING TOOL 2

1) Measure the longest part of your hand with the pen or pencil you are using.

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2) Measure the longest part of your foot with the pen or pencil you are using.

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3) If 1.5 tongue depressors = 1 pen, how long is your hand in tongue depressors?

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4) If 3.5 paperclips = 1 pen, how long is your foot in paperclips?

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5) If you wanted to completely hide the paperclips below by laying tongue depressors on top of them, how many tongue depressors (including fractions of td's) it would take for each set of paper clips?



6) A new student has just arrived in your physics class from another school. The teacher has asked you to explain to her how to express the height of the classroom door in paper clips using the measurement from tongue depressors. Write a brief explanation on how you would instruct the new student to accomplish this task.

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7) Define *length*: \_

8) A water bottle is 9 paper clips high. If 3.5 paper clips = 1 pen, how tall is the water bottle in pens?

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9) If 1.5 tongue depressors = 1 pen, how tall is the water bottle in question #8 in tongue depressors?

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10) Do the following calculations and include the appropriate units.

a. 
$$\frac{3.5 \text{ paper clips}}{1 \text{ pen}} \times \frac{1 \text{ pen}}{1.5 \text{ tongue depressors}} =$$

b. 
$$\frac{16.3 \text{ unsharpened pencils}}{1 \text{ classroom door in height}} \times \frac{1.3 \text{ cans of soda pop}}{1 \text{ unsharpened pencil}} =$$